

- (v) Environmental impact;
- (vi) Safety;
- (vii) Driveability; and
- (viii) Performance.

(d) If a petition is found not to contain the information required by this section, the petitioner is informed about the areas of insufficiency and advised that the petition will not receive further consideration until the required information is received.

(e) The Administrator may request the petitioner to provide information in addition to that required by this section.

(f) The Administrator publishes in the FEDERAL REGISTER a notice of receipt for each petition containing the information required by this section. Any interested person may submit written comments regarding the petition.

(g) In reaching a determination on a petition submitted under this section, the Administrator takes into account:

(1) The purposes of 49 U.S.C. chapter 329, including encouraging the development and widespread use of alternative fuels as transportation fuels by consumers, and the production of alternative fuel powered motor vehicles;

- (2) Consumer acceptability;
- (3) Economic practicability;
- (4) Technology;
- (5) Environmental impact;
- (6) Safety;
- (7) Driveability; and
- (8) Performance.

(h) If the Administrator grants the petition, the petitioner is notified in writing, specifying the reduced minimum driving range, and specifying the model years for which the reduced driving range applies. The Administrator also publishes a notice of the grant of the petition in the FEDERAL REGISTER and the reasons for the grant.

(i) If the Administrator denies the petition, the petitioner is notified in writing. The Administrator also publishes a notice of the denial of the petition in the FEDERAL REGISTER and the reasons for the denial.

[63 FR 66069, Dec. 1, 1998]

#### § 538.8 Gallon Equivalents for Gaseous Fuels.

The gallon equivalent of gaseous fuels, for purposes of calculations made

under 49 U.S.C. 32905, are listed in Table I:

TABLE I—GALLON EQUIVALENT MEASUREMENTS FOR GASEOUS FUELS PER 100 STANDARD CUBIC FEET

Fuel	Gallon equivalent measurement
Compressed Natural Gas .....	0.823
Liquefied Natural Gas .....	0.823
Liquefied Petroleum Gas (Grade HD-5)*	0.726
Hydrogen .....	0.259
Hythane (Hy5) .....	0.741

\* Per gallon unit of measure.

### PART 541—FEDERAL MOTOR VEHICLE THEFT PREVENTION STANDARD

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APPENDIX C TO PART 541—CRITERIA FOR SELECTING LINES LIKELY TO HAVE HIGH THEFT RATES

AUTHORITY: 49 U.S.C. 33101, 33102, 33103, 33105; delegation of authority at 49 CFR 1.50.

SOURCE: 50 FR 43190, Oct. 24, 1985, unless otherwise noted.

#### § 541.1 Scope.

This standard specifies performance requirements for identifying numbers or symbols to be placed on major parts of certain passenger motor vehicles.

#### § 541.2 Purpose.

The purpose of this standard is to reduce the incidence of motor vehicle

### § 541.3

thefts by facilitating the tracing and recovery of parts from stolen vehicles.

#### § 541.3 Application.

This standard applies to the following:

(a) Passenger motor vehicle parts identified in § 541.5(a) that are present:

(1) In the passenger motor vehicle lines listed in appendix A of this part;

(2) Beginning with model year 1997, in passenger motor vehicle lines which NHTSA has finally determined, pursuant to 49 CFR part 542, to be high theft based on the 1990/91 median theft rate; and

(3) Beginning with model year 1997, in passenger motor vehicle lines listed in appendix B of this part.

(b) Replacement parts for passenger motor vehicle lines described in § 541.3(a) (1) and (2), if the part is identified in § 541.5(a).

[59 FR 64168, Dec. 13, 1994]

#### § 541.4 Definitions.

(a) *Statutory terms.* All terms defined in 49 U.S.C. chapter 331 are used in accordance with their statutory meanings unless otherwise defined in paragraph (b) of this section.

(b) *Other definitions.* (1) *Interior surface* means, with respect to a vehicle part, a surface that is not directly exposed to sun and precipitation.

(2) *Light-duty truck (LDT)* means a motor vehicle, with motive power, except a trailer, designed primarily for the transportation of property or special purpose equipment, that is rated at 6,000 pounds gross vehicle weight or less.

(3) *Line* means a name which a manufacturer applies to a group of motor vehicles of the same make which have the same body or chassis, or otherwise are similar in construction or design. A "line" may, for example, include 2-door, 4-door, station wagon, and hatchback vehicles of the same make.

(4) *1990/91 median theft rate* means 3.5826 thefts per thousand vehicles produced.

(5) *Multipurpose passenger vehicle (MPV)* means a passenger motor vehicle which is constructed either on a truck chassis or with special features for occasional off-road operation and

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which is rated at 6,000 pounds gross vehicle weight or less.

(6) *Passenger car* is used as defined in § 571.3 of this chapter.

(7) *VIN* means the vehicle identification number required by part 565 of this chapter.

[59 FR 64168, Dec. 13, 1994, as amended at 61 FR 29033, June 7, 1996]

#### § 541.5 Requirements for passenger motor vehicles.

(a) Each passenger motor vehicle subject to this standard must have an identifying number affixed or inscribed on each of the parts specified in paragraphs (a)(1) through (a)(18) inclusive, if the part is present on the passenger motor vehicle. In the case of passenger motor vehicles not originally manufactured to comply with applicable U.S. vehicle safety and bumper standards, each such motor vehicle subject to this standard must have an identifying number inscribed in a manner which conforms to paragraph (d)(2) of this section, on each of the parts specified in paragraphs (a)(1) through (a)(18), inclusive, if the part is present on the motor vehicle.

- (1) Engine.
- (2) Transmission.
- (3) Right front fender.
- (4) Left front fender.
- (5) Hood.
- (6) Right front door.
- (7) Left front door.
- (8) Right rear door.
- (9) Left rear door.
- (10) Sliding or cargo door(s).
- (11) Front bumper.
- (12) Rear bumper.
- (13) Right rear quarter panel (passenger cars).
- (14) Left rear quarter panel (passenger cars).
- (15) Right-side assembly (MPVs).
- (16) Left-side assembly (MPVs).
- (17) Pickup box, and/or cargo box (LDTs).
- (18) Rear door(s) (both doors in case of double doors), decklid, tailgate, or hatchback (whichever is present).

(b)(1) Except as provided in paragraphs (b)(2) and (b)(3) of this section, the number required to be inscribed or affixed by paragraph (a) shall be the VIN of the passenger motor vehicle.

(2) In place of the VIN, manufacturers who were marking engines and/or transmissions with a VIN derivative consisting of at least the last eight characters of the VIN on October 24, 1984, may continue to mark engines and/or transmissions with such VIN derivative.

(3) In the case of passenger motor vehicles not originally manufactured to comply with U.S. vehicle safety and bumper standards, the number required to be inscribed by paragraph (a) of this section shall be the original vehicle identification number assigned to the motor vehicle by its original manufacturer in the country where the motor vehicle was originally produced or assembled.

(c) The characteristics of the number required to be affixed or inscribed by paragraph (a) of this section shall satisfy the size and style requirements set forth for vehicle certification labels in § 567.4(g) of this chapter.

(d) The number required by paragraph (a) of this section must be affixed by means that comply with paragraph (d)(1) of this section or inscribed by means that comply with paragraph (d)(2) of this section.

(1) *Labels.* (i) The number must be printed indelibly on a label, and the label must be permanently affixed to the passenger motor vehicle's part.

(ii) The number must be placed on each part specified in paragraph (a) of this section in a location such that the number is, if practicable, on an interior surface of the part as installed on the vehicle and in a location where it:

(A) Will not be damaged by the use of any tools necessary to install, adjust, or remove the part and any adjoining parts, or any portions thereof;

(B) Is on a portion of the part not likely to be damaged in a collision; and

(C) Will not be damaged or obscured during normal dealer preparation operations (including rustproofing and undercoating).

(iii) The number must be placed on each part specified in paragraph (a) of this section in a location that is visible without further disassembly once the part has been removed from the vehicle.

(iv) The number must be placed entirely within the target area specified

by the original manufacturer for that part, pursuant to paragraph (e) of this section, on each part specified in paragraph (a) of this section.

(v) Removal of the label must—

(A) Cause the label to self-destruct by tearing or rendering the number on the label illegible, and

(B) Discernibly alter the appearance of that area of the part where the label was affixed by leaving residual parts of the label or adhesive in that area, so that investigators will have evidence that a label was originally present.

(vi) Alteration of the number on the label must leave traces of the original number or otherwise visibly alter the appearance of the label material.

(vii) The label and the number shall be resistant to counterfeiting.

(viii) The logo or some other unique identifier of the vehicle manufacturer must be placed in the material of the label in a manner such that alteration or removal of the logo visibly alters the appearance of the label.

(2) *Other means of identification.* (i) Removal or alteration of any portion of the number must visibly alter the appearance of the section of the vehicle part on which the identification is marked.

(ii) The number must be placed on each part specified in paragraph (a) of this section in a location that is visible without further disassembly once the part has been removed from the vehicle.

(iii) The number must be placed entirely within the target area specified by the original manufacturer for that part, pursuant to paragraph (e) of this section, on each part specified in paragraph (a) of this section.

(e) *Target areas.* (1) Each manufacturer that is the original producer who installs or assembles the covered major parts on a line shall designate a target area for the identifying numbers to be marked on each part specified in paragraph (a) of this section for each of its lines subject to this standard. The target area shall not exceed 50 percent of the surface area on the surface of the part on which the target area is located.

(2) Each manufacturer subject to paragraph (e)(1) of this section shall, not later than 30 days before the line is

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introduced into commerce, inform NHTSA in writing of the target areas designated for each line listed in appendix A. The information should be submitted to: Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590.

(3) The target areas designated by the original vehicle manufacturer for a part on a line shall be maintained for the duration of the production of such line, unless a restyling of the part makes it no longer practicable to mark the part within the original target area. If there is such a restyling, the original vehicle manufacturer shall inform NHTSA of that fact and the new target area, in accordance with the requirements of paragraph (e)(2) of this section.

[59 FR 64168, Dec. 13, 1994]

### § 541.6 Requirements for replacement parts.

(a) Each replacement part for a part specified in § 541.5(a) must have the registered trademark of the manufacturer of the replacement part, or some other unique identifier if the manufacturer does not have a registered trademark, and the letter “R” affixed or inscribed on such replacement part by means that comply with § 541.5(d), except as provided in paragraph (d) of this section. In the case of replacement parts subject to the marking requirements of this section, which were not originally manufactured for sale in the United States, the importer of the part shall inscribe its registered trademark, or some other unique identifier if the importer does not have a registered trademark, and the letter “R” on the part by means that comply with § 541.5(d)(2), except as provided in paragraph (d) of this section.

(b) A replacement part subject to paragraph (a) of this section shall not be marked pursuant to § 541.5.

(c) The trademark and the letter “R” required by paragraph (a) of this section must be at least one centimeter high.

(d) The trademark and the letter “R” required by paragraph (a) of this section must be placed entirely within the target area specified by the vehicle

manufacturer, pursuant to paragraph (e) of this section.

(e) *Target areas.* (1) Each manufacturer that is the original producer or assembler of the vehicle for which the replacement part is designed shall designate a target area for the identifying symbols to be marked on each replacement part subject to the requirements of paragraph (a) of this section. Such target areas shall not exceed 25 percent of the surface area of the surface on which the replacement part marking will appear.

(2) The boundaries of the target area designated under paragraph (e)(1) of this section shall be at least 10 centimeters at all points from the nearest boundaries of the target area designated for that part under § 541.5(e) of this part.

(3) Each manufacturer subject to paragraph (e)(1) of this section shall inform NHTSA in writing of the target areas designated for each replacement part subject to paragraph (a) of this section, at the same time as it informs the agency of the target area designated for the original equipment parts of the line, pursuant to § 541.5(e)(2) of this part. The information should be submitted to: Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, SW., Washington, DC 20590.

(4) The target area designated by the original vehicle manufacturer for the parts subject to the requirements of paragraph (a) of this section shall be maintained for the duration of the production of such replacement part, unless a restyling of the part makes it no longer practicable to mark the part within the original target area. If there is such a restyling, the original vehicle manufacturer shall inform NHTSA of that fact and the new target area, in accordance with the requirements of paragraph (e)(3) of this section.

(f) Each replacement part must bear the symbol “DOT” in letters at least one centimeter high within 5 centimeters of the trademark and of the letter “R”, and entirely within the target area specified under paragraph (d) of

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this section. The symbol "DOT" constitutes the manufacturer's certification that the replacement part conforms to the applicable theft prevention standard, and shall be inscribed or affixed by means that comply with paragraph (a) of this section. In the

case of replacement parts subject to the requirements of paragraph (a) of this section, which were not originally manufactured for sale in the United States, the importer shall inscribe the "DOT" symbol before the part is imported into the United States.

**APPENDIX A TO PART 541—LINES SUBJECT TO THE REQUIREMENTS OF THIS STANDARD**

Manufacturer	Subject lines	Manufacturer	Subject lines
ALFA ROMEO .....	Milano 161 164		Chevrolet S-10 Pickup Geo Storm
BMW .....	Z3 Z8 6 Car Line		Chevrolet Tracker (MPV) GMC Jimmy (MPV) GMC Sonoma Pickup
CONSULIER .....	Consulier GTP		Oldsmobile Achieva (MYs 1997–1998)
DAEWOO .....	Korando Musso (MPV) Nubira		Oldsmobile Bravada Oldsmobile Cutlass Oldsmobile Cutlass Supreme (MYs 1988–1997)
DAIMLERCHRYSLER	Chrysler Cirrus Chrysler Fifth Avenue/Newport Chrysler Laser Chrysler LeBaron/Town & Country Chrysler LeBaron GTS Chrysler's TC Chrysler New Yorker Fifth Avenue Chrysler Sebring Chrysler Town & Country Dodge 600 Dodge Aries Dodge Avenger Dodge Colt Dodge Daytona Dodge Diplomat Dodge Lancer Dodge Neon Dodge Shadow Dodge Stratus Dodge Stealth Eagle Summit Eagle Talon Jeep Cherokee (MPV) Jeep Liberty (MPV) Jeep Wrangler (MPV) Plymouth Caravelle Plymouth Colt Plymouth Laser Plymouth Gran Fury Plymouth Neon Plymouth Reliant Plymouth Sundance Plymouth Breeze	HONDA .....	Oldsmobile Intrigue Pontiac Fiero Saturn Sports Coupe Accord CRV (MPV) Odyssey (MPV) Passport Pilot (MPV) Prelude S2000 Acura Integra Acura MDX (MPV) Acura RSX
	FERRARI .....	HYUNDAI .....	Accent Sonata Tiburon
	FORD .....	ISUZU .....	Amigo Impulse Rodeo Rodeo Sport Stylus Trooper/Trooper II VehiCross (MPV)
		JAGUAR .....	XJ
		KIA MOTORS .....	Optima Rio Sephia (1998–2002) Spectra
		LOTUS .....	Elan
		MASERATI .....	Biturbo Quattroporte 228
		MAZDA .....	626 MX-3 MX-5 Miata MX-6
		MERCEDES-BENZ ....	190 D 190 E 260E (1987–1989) 300 SE (1988–1991) 300 TD (1987) 300 SDL (1987) 300 SEL 350 SDL (1990–1991) 420 SEL (1987–1991) 560 SEL (1987–1991) 560 SEC (1987–1991) 560 SL
	GENERAL MOTORS	MITSUBISHI .....	Cordia Eclipse

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Manufacturer	Subject lines
	Lancer
	Mirage
	Montero (MPV)
	Montero Sport (MPV)
	Tredia
NISSAN .....	3000GT
	240SX
	Sentra/200SX
	Xterra
PEUGEOT .....	405
PORSCHE .....	924S
SUBARU .....	XT
	SVX
	Baja
	Forester
	Legacy
SUZUKI .....	Aerio
	X90 (MPV)
	Sidekick (MYs 1997-1998)
	Vitara/Grand Vitara (MPV)
TOYOTA .....	Toyota 4-Runner (MPV)
	Toyota Avalon
	Toyota Camry
	Toyota Celica
	Toyota Corolla/Corolla Sport
	Toyota Echo
	Toyota Highlander (MPV)
	Toyota Matrix (MPV)
	Toyota MR2
	Toyota MR2 Spyder
	Toyota Prius
	Toyota RAV4 (MPV)
	Toyota Sienna (MPV)
	Toyota Tercel
	Lexus IS300
	Lexus LX470 (MPV)
	Lexus RX300 (MPV)
	Scion xA <sup>1</sup>
	Scion xB <sup>1</sup>
VOLKSWAGEN .....	Audi Quattro
	Volkswagen Scirocco

<sup>1</sup> Lines added for MY 2004.

[68 FR 39473, July 2, 2003]

**APPENDIX A-1—HIGH-THEFT LINES WITH ANTITHEFT DEVICES WHICH ARE EXEMPTED FROM THE PARTS-MARKING REQUIREMENT OF THIS STANDARD PURSUANT TO 49 CFR PART 543**

Manufacturer	Subject lines
AUSTIN ROVER .....	Sterling
BMW .....	MINI
	X5
	Z4 <sup>2</sup>
	3 Car Line
	5 Car Line
	7 Car Line
	8 Car Line
DAIMLERCHRYSLER	Jeep Grand Cherokee <sup>1</sup>
	Chrysler Conquest
	Chrysler Imperial
FORD .....	Lincoln Town Car <sup>2</sup>
	Mustang
	Mercury Sable
	Mercury Grand Marquis
	Taurus
GENERAL MOTORS	Buick LeSabre

Manufacturer	Subject lines
	Buick Park Avenue
	Buick Regal/Century
	Buick Riviera
	Cadillac Allante
	Cadillac Deville
	Cadillac Seville
	Chevrolet Cavalier
	Chevrolet Corvette
	Chevrolet Impala/Monte Carlo
	Chevrolet Lumina/Monte Carlo (MYs 1996-1999)
	Chevrolet Malibu
	Chevrolet Venture
	Oldsmobile Alero
	Oldsmobile Aurora
	Oldsmobile Toronado
	Pontiac Bonneville
	Pontiac Grand Am
	Pontiac Grand Prix
	Pontiac Sunfire
HONDA .....	Acura CL
	Acura Legend (MYs 1991-1996)
	Acura NSX
	Acura RL
	Acura SLX
	Acura TL
	Acura Vigor (MYs 1992-1995)
ISUZU .....	Axiom
	Impulse (MYs 1987-1991)
JAGUAR .....	XK
MAZDA .....	6
	929
	RX-7
	Millenia
MERCEDES-BENZ ....	124 Car Line (the models within this line are):
	260E
	300D
	300E
	300CE
	300TE
	400E
	500E
	129 Car Line (the models within this line are):
	300SL
	500SL
	600SL
	SL320
	SL500
	SL600
	202 Car Line (the models within this line are):
	C220
	C230
	C280
	C36
	C43
MITSUBISHI .....	Galant
	Starion
	Diamante
NISSAN .....	Nissan Altima
	Nissan Maxima
	Nissan Pathfinder
	Nissan 300ZX
	Infiniti G35
	Infiniti I30
	Infiniti J30
	Infiniti M30
	Infiniti M45 <sup>1</sup>
	Infiniti QX4
	Infiniti Q45

Manufacturer	Subject lines
PORSCHE .....	911 928 968 986 Boxster
SAAB .....	9-3 900 (1994-1998) 9000 (1989-1998)
TOYOTA .....	Toyota Supra Toyota Cressida Lexus ES Lexus GS Lexus LS Lexus SC
VOLKSWAGEN .....	Audi 5000S Audi 100/A6 Audi 200/S4/S6 Audi Allroad Quattro (MPV) Audi Cabriolet Volkswagen Cabrio

Manufacturer	Subject lines
	Volkswagen Corrado Volkswagen Golf/GTI Volkswagen Jetta/Jetta III Volkswagen Passat

<sup>1</sup> Lines exempted in full beginning with MY 2004.  
<sup>2</sup> Lines exempted in full beginning with MY 2003.

[68 FR 39473, July 2, 2003]

APPENDIX A-II TO PART 541—HIGH-THEFT LINES WITH ANTITHEFT DEVICES WHICH ARE EXEMPTED IN-PART FROM THE PARTS-MARKING REQUIREMENTS OF THIS STANDARD PURSUANT TO 49 CFR PART 543

Manufacturers	Subject lines	Parts to be marked
General Motors .....	Cadillac Eldorado .....	Engine, Transmission.
	Cadillac Concours .....	Engine, Transmission.
	Oldsmobile Ninety-Eight .....	Engine, Transmission.
	Pontiac Firebird .....	Engine, Transmission.
	Chevrolet Camaro .....	Engine, Transmission.
	Oldsmobile Eighty-Eight .....	Engine, Transmission.

[66 FR 40625, Aug. 3, 2001]

APPENDIX B TO PART 541—PASSENGER MOTOR VEHICLE LINES (EXCEPT LIGHT-DUTY TRUCKS) WITH THEFT RATES BELOW THE 1990/91 MEDIAN THEFT RATE, SUBJECT TO THE REQUIREMENTS OF THIS STANDARD

Manufacturer	Subject lines
Ford .....	Crown Victoria.
General Motors .....	Chevrolet Astro (MPV). GMC Safari (MPV).
Honda .....	Civic.

[66 FR 40625, Aug. 3, 2001]

APPENDIX C TO PART 541—CRITERIA FOR SELECTING LINES LIKELY TO HAVE HIGH THEFT RATES

*Scope*

These criteria specify the factors the Administrator will take into account in determining whether a new line is likely to have a high theft rate, and, therefore, whether such line will be subject to the requirements of this theft prevention standard.

*Purpose*

The purpose of these criteria is to enable the Administrator to select, by agreement

with the manufacturer, if possible, those new lines which are likely to have high theft rates.

*Application*

These criteria apply to lines of passenger motor vehicles initially introduced into commerce on or after January 1, 1983.

*Methodology*

These criteria will be applied to each line initially introduced into commerce on or after January 1, 1983. The likely theft rate for such lines will be determined in relation to the national median theft rate for 1983 and 1984. If the line is determined to be likely to have a theft rate above the national median, the Administrator will select such line for coverage under this theft prevention standard.

*Criteria*

1. Retail price of the vehicle line.
2. Vehicle image or marketing strategy.
3. Vehicle lines with which the new line is intended to compete, and the theft rates of such lines.
4. Vehicle line(s), if any, which the new line is intended to replace, and the theft rate(s) of such line(s).
5. Presence or absence of any new theft prevention devices or systems.
6. Preliminary theft rate for the line, if it can be determined on the basis of currently available data.